DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Simon Roofing and Sheet Metal Corp. dba SR Products
30505 Bainridge Road, Suite 210
Solon, OH. 44139

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: SR Products Modified Bitumen Roof System Over Lightweight Concrete Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA# 12-0517.03 and consists of pages 1 through 16.
The submitted documentation was reviewed by Alex Tigera.

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP
Deck Type:	Lightweight Insulating Concrete
Maximum Design Pressure	-225 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
SR Base 40 PAS	32’ 10” x 3’ 3-3/8”	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
SR Base 45 PAM	32’ 10” x 3’ 3-3/8”	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
SR Base 35 PAS	32’ 10” x 3’ 3-3/8”	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
SR Base 40 PAM	32’ 10” x 3’ 3-3/8”	ASTM D 6222 Type I	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
SR Base 30 PSS	32’ 10” x 3’ 3-3/8”	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a polyethylene or sanded top surface.
SR Cap 40 PSM	32’ 10” x 3’ 3-3/8”	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
SR Cap 45 PSM	32’ 10” x 3’ 3-3/8”	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
SR Base 20 GSS	65’ 2” x 3’ 3-3/8”	ASTM D 6163 Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
SR SuperiorPly Base	65’ 2” x 3’ 3-3/8”	ASTM D 6163 Type I	SBS modified asphalt coated fiberglass reinforced base sheet.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck	Gypsum insulation board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield-CG	Polyisocyanurate/perlite composite insulation	Hunter Panels, LLC
FescoBoard	Expanded mineral fiber	Johns Manville Corp.
High Density Wood Fiberboard	Wood fiber board	Blue Ridge Fiberboard, Inc.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
Thermaroof Composite-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	United States Gypsum Corporation

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast 15 HS	Insulation fastener for wood, steel and concrete decks		SFS Intec, Inc.
2.	CR Base Sheet Fastener (1.2") or CR Base Sheet Fastener (1.7")	Galvanized fastener for gypsum and lightweight insulating concrete		OMG, Inc.
3.	Base Sheet Plate	Galvalume stress plate.	2.7" round	OMG, Inc.
4.	Twin Loc-Nails	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
5.	FM-260	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
6.	FM-245	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
7.	FM-90	Pre-assembled Galvalume Base Sheet Fastener and stress plate	Various	ES Products, Inc.
8.	Maxload Fastener	Insulation fastener for wood, steel, and concrete decks.	Various	OMG, Inc.
9.	Flat Bottom Metal Plates	Galvalume stress plate.	3" square	OMG, Inc.

APPROVED SURFACING:

TABLE 4

Number	Product Name	Product Description	Application Rate	Specification	Manufacturer
1.	SR 60 Non-Fibered Aluminum	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	SR Products
2.	Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
3.	Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic

EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Report No.	Date
Factory Mutual Research Corporation	4470	J.I. 2W7A7.AM	08.04.94
	4470	J.I. 3001334	02.15.00
	4470	J.I. 3000857	01.12.00
	4470	J.I. 3004091	01.12.00
	4470	3014692	08.05.03
	4470	3023458	07.18.06
Underwriters Laboratory	TAS 114	00NK20869	06.08.00
Trintiy | ERD	TAS 114	11752.09.99-1	02.08.00
	TAS 114	11776.06.02	06.13.02
	TAS 114	11758.08.03	08.11.03
	TAS 114	020843.02.05-1	02.10.05
	TAS 114	02764.09.05	09.09.05
	TAS 114	P1739.01.07	01.23.07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11.30.07
	ASTM D 6164 / D 6222	P10490.08.08	08.14.08
PRI Asphalt Technologies	ASTM D6222	PUSA-062-02-01	12/04/07
	ASTM D6163	PUSA-064-02-02	02/27/08

APPROVED ASSEMBLIES:

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Approved Cellular Lightweight Concrete

System Type A(1): Anchor sheet mechanically fastened; one or more layers of insulation fully adhered with approved asphalt.

All General and System limitations apply.

Anchor Sheet: One ply of GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach anchor sheet using OMG CR-Base Sheet Fasteners (1.2") or (1.7") spaced 7" o.c. in a 4" lap and 7" o.c. in two equally spaced staggered rows in the center of the sheet.

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, Multi-Max FA-3, H-Shield, Tapered H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Thermaroof Composite-3 Minimum 1.5" thick	**N/A**	**N/A**
Approved High Density Wood Fiberboard Minimum ½" thick	**N/A**	**N/A**
FescoBoard Minimum ¾" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate face down.

Base Sheet: (Optional if using 1 to 3 plies of ply sheet noted below) One ply of SR Base 20 GSS or SR SuperiorPly Base adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One ply of SR Base 20 GSS or SR SuperiorPly Base or one or more plies of Type IV or VI ply sheet adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of SR Base 40 PAS, SR Base 45 PAM, SR Base 35 PAS, or SR Base 40 PAM torch applied or one ply of SR Cap 40 PSM, or SR Cap 45 PSM torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -45 psf; (See general limitation #7.)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Elastizell LWIC over structural concrete; minimum 200psi

System Type A(2): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in Olybond 500 or SpotShot Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with Olybond 500 or SpotShot Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of SR Cap 40 PSM or SR Cap 45 PSM hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -225.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Elastizell LWIC over structural concrete; minimum 200psi

System Type A(3): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in Olybond 500 or SpotShot Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with Olybond 500 or SpotShot Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of SR Base 40 PAS, SR Base 35 PAS torch applied.

Membrane: One ply of SR Base 45 PAM or SR Base 40 PAM torch applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -225.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Elastizell LWIC over structural concrete; minimum 200psi

System Type A(4): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of SR Cap 40 PSM or SR Cap 45 PSM hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -180.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Celcore or Mearlcrete LWIC over structural concrete; minimum 200psi

System Type A(5): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of SR Base 30 PSS adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of SR Cap 40 PSM or SR Cap 45 PSM hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -222.5 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Elastizell LWIC over structural concrete; minimum 200psi

System Type A(6): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of SR Base 40 PAS, SR Base 35 PAS torch applied.

Membrane: One ply of SR Base 45 PAM, SR Base 40 PAM torch applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -180.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Celcore or Mearlcrete LWIC over structural concrete; minimum 200psi

System Type A(7): All layers of insulation adhered to LWIC. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of SR Base 40 PAS, SR Base 35 PAS torch applied.

Membrane: One ply of SR Base 45 PAM or SR Base 40 PAM torch applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -222.5 psf (See General Limitation #9)

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Approved Cellular Lightweight Concrete

System Type E(1): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: One ply of GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach base sheet using OMG CR Base Sheet Fasteners and Plates spaced 7" o.c. in a 4" lap and 7" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One ply of SR Base 20 GSS, SR SuperiorPly Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of SR Base 40 PAS, SR Base 45 PAM, SR Base 35 PAS or SR Base 40 PAM torch applied or one ply of SR Cap 40 PSM, or SR Cap 45 PSM torch or hot asphalt.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -45 psf; (See general limitation #7.)

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore MF Lightweight Concrete; 300psi compressive strength.

System Type E(2): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: SR Base 20 GSS or SR SuperiorPly Base fastened as outlined below:

Fastening: FM-90 fasteners at 8" o.c. in 4" lap and 8" o.c. in three equally spaced center rows.

Ply Sheet: One ply of SR Base 20 GSS, SR SuperiorPly Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of SR Base 40 PAS, SR Base 45 PAM, SR Base 35 PAS or SR Base 40 PAM torch applied or one ply of SR Cap 40 PSM or SR Cap 45 PSM torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See general limitation #7.)

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Elastizell with Zell-Crete fibers; 350-400 psi Compressive strength. Supplemental attachement with OMG Maxload Fastener and 3" Flat Bottom Metal Plates at 1 per $8ft^2$

System Type E(3): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: SR Base 20 GSS or SR SuperiorPly Base fastened as outlined below:

Fastening: Twin-Loc Nails at 6" o.c. in 4" lap and 6" o.c. in three equally spaced center rows.

Ply Sheet: One ply of SR Base 20 GSS, SR SuperiorPly Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of SR Base 40 PAS, SR Base 45 PAM, SR Base 35 PAS or SR Base 40 PAM torch applied or one ply of SR Cap 40 PSM or SR Cap 45 PSM torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See general limitation #7.)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE